

07/10/2017

VCD _____ S.Y.B.S.C (C.S.) - COMP-I - SEM-IV - 75 - 2 $\frac{1}{2}$ HRS - PG _____

- NOTE:**
- 1) Diagrams should be Neat and labeled.
 - 2) All Questions are compulsory.
 - 3) Right side indicates marks.

Q.1) Attempt any four.

[20]

1. Write a short note on OS services.
2. State and explain different types of system call.
3. Explain multithreading model.
4. Describe Layered approach.
5. Define cooperative Processes. Explain its four benefits
6. Explain Five State Process Model with a neat diagram.
7. Explain ls command with options
8. Explain ps command in linux

Q.2) Attempt any four.

[20]

1. Write short note on monitor.
2. Write a short note on Semaphore
3. write a script to perform mathematics operations.
4. Write a script to- Redirecting Output and Redirecting Input in Scripts
5. Define deadlock. Explain conditions of deadlock.
6. Depict the Gantt chart for FCFS and SJF for the following and find the following and find average waiting time:

| Process | CPU Butst Time | Arrival Time |
|---------|----------------|--------------|
| P1 | 07 | 0 |
| P2 | 03 | 2 |
| P3 | 05 | 2 |
| P4 | 08 | 2 |
| P5 | 07 | 3 |
| P6 | 09 | 3 |

7. How we can recover deadlock? Explain in detail.
8. Explain RR scheduling with example.

Q.3) Attempt any four.

[20]

1. Write short note on Virtual memory.
2. Write a short note on Segmentation.
3. Explain the read command with option and suitable example
4. Explain in brief single-level and two-level directory structure.
5. Explain FIFO algorithm with example.
6. Explain CASE structure in linux.
7. Explain 1) if...then 2) for loop in linux with example
8. Create a script to find out largest no of two nos.

Q.4) Attempt any three.

1. For the following page reference string calculate number of page faults with OPT
String: 5 3 2 1 3 4 5 1 2 3 4 5 3 2 4.
2. Explain data files commands in linux
3. Explain chmod command.
4. Briefly explain different file operations.
5. Explain the linux architecture.
6. Write a short note on Linux File System.

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